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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS	20	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	21	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	23	MAR 02	GBFULL: New full-text patent database on STN
NEWS	24	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	25	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:46:18 ON 09 MAR 2005

=> file registry
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE 'REGISTRY' ENTERED AT 11:46:37 ON 09 MAR 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

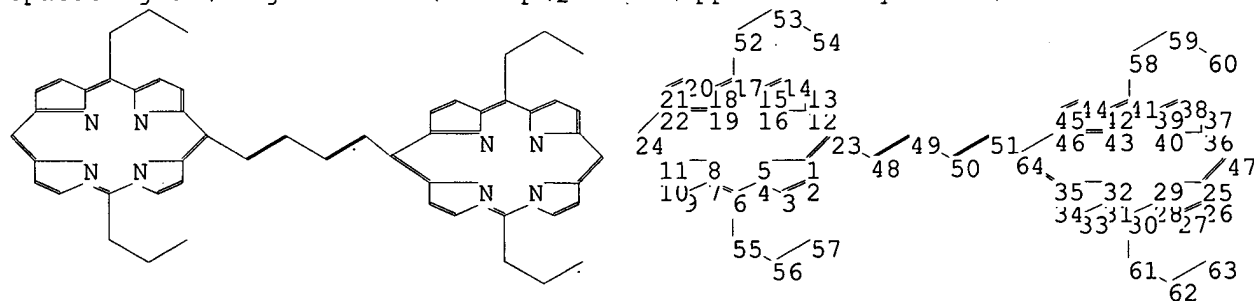
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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

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Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493.str



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normalized bonds :
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Match level :

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55:CLASS 56:CLASS 57:CLASS 58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS
63:CLASS 64:Atom

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L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s 12 sss full

FULL SEARCH INITIATED 11:47:09 FILE 'REGISTRY'
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100.0% PROCESSED 426 ITERATIONS 10 ANSWERS
 SEARCH TIME: 00.00.01

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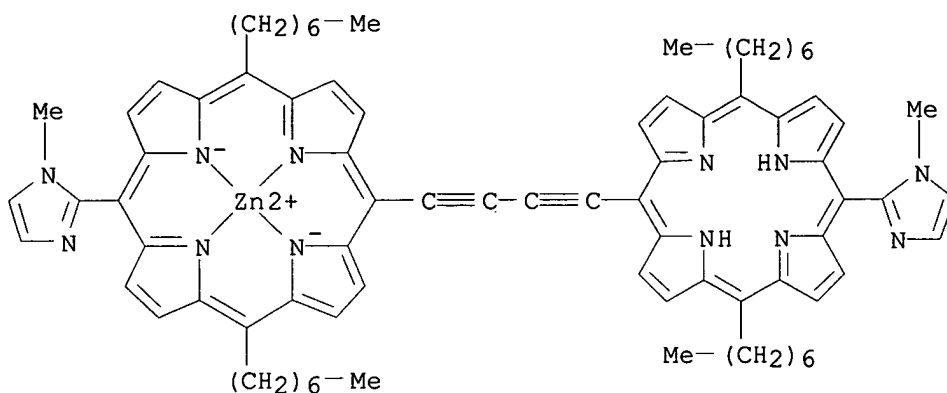
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(SP-4-2)- (9CI) (CA INDEX NAME)
MF C80 H88 N12 Zn
CI CCS

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SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



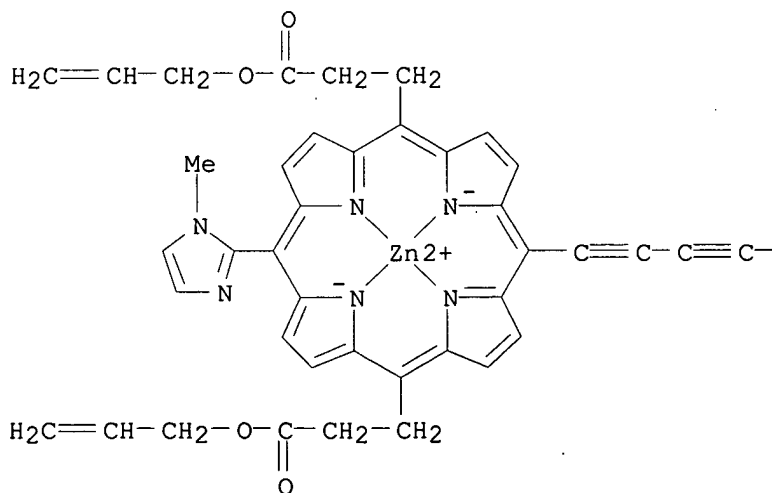
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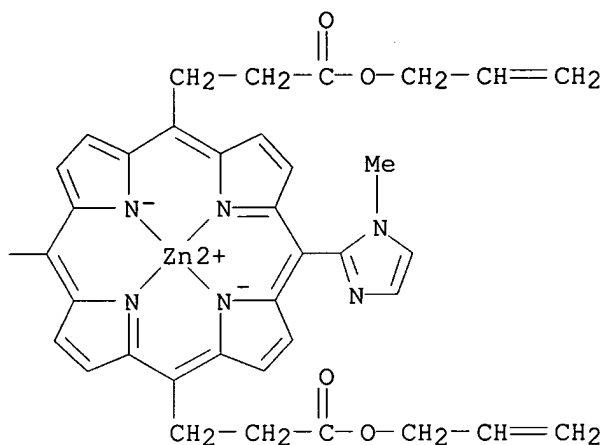
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 RN 679402-88-1 REGISTRY
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 (CA INDEX NAME)
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 CI PMS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 679402-86-9
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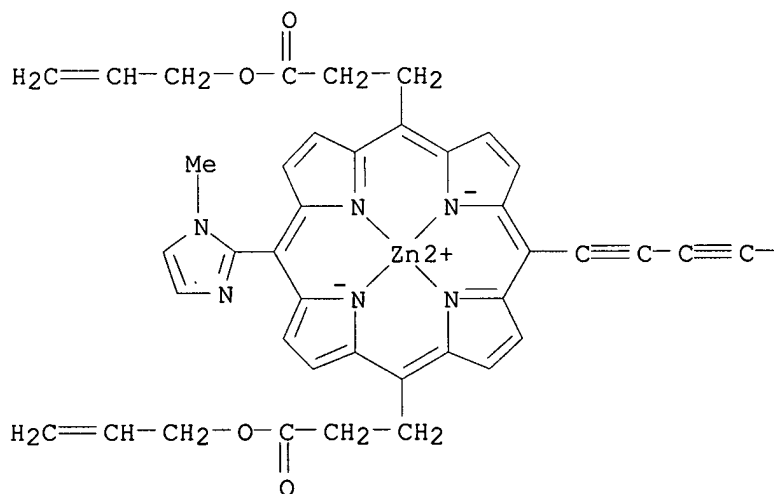
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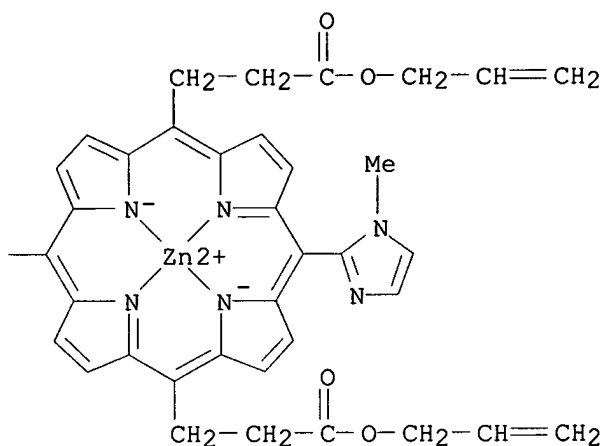




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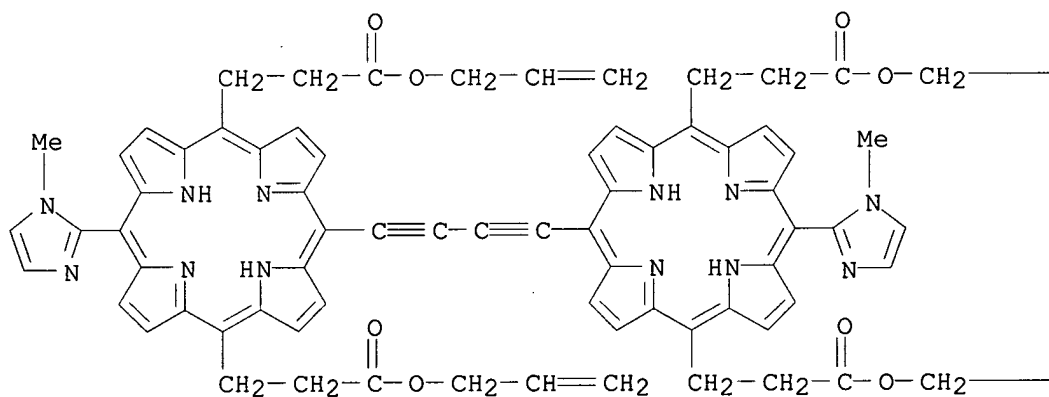
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RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

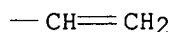
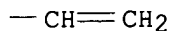




2 REFERENCES IN FILE CA (1907 TO DATE)
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RN 679402-83-6 REGISTRY
CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetra-2-propenyl ester (9CI)
(CA INDEX NAME)
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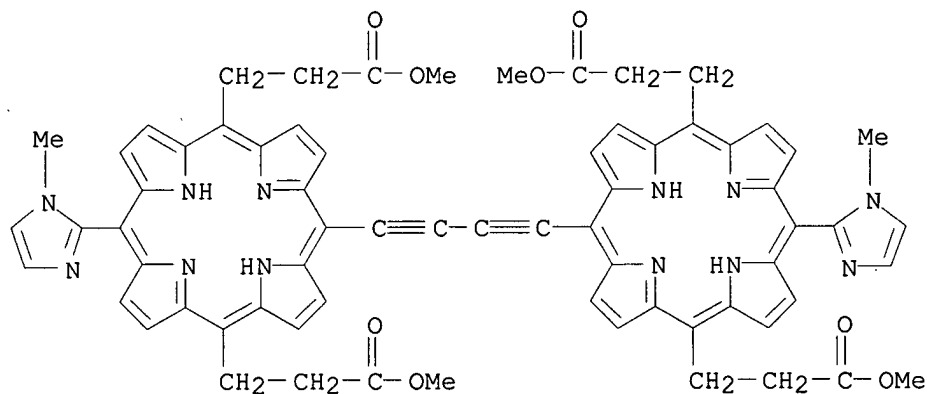




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RN 679402-81-4 REGISTRY
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MF C68 H58 N12 O8
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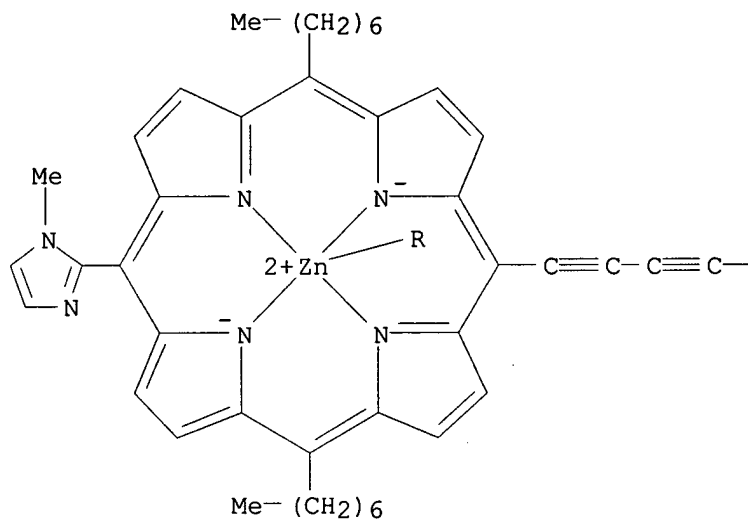
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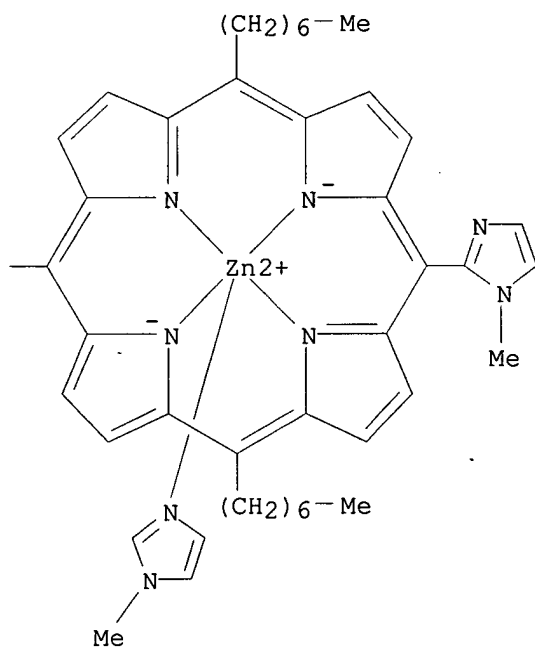
L3 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-91-3 REGISTRY
CN Zinc, [μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato- κ N21, κ N22, κ N23,.kap pa.N24]](4-)]bis(1-methyl-1H-imidazole- κ N3)di- (9CI) (CA INDEX NAME)

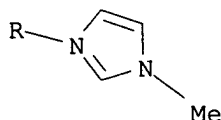
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 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

PAGE 1-A



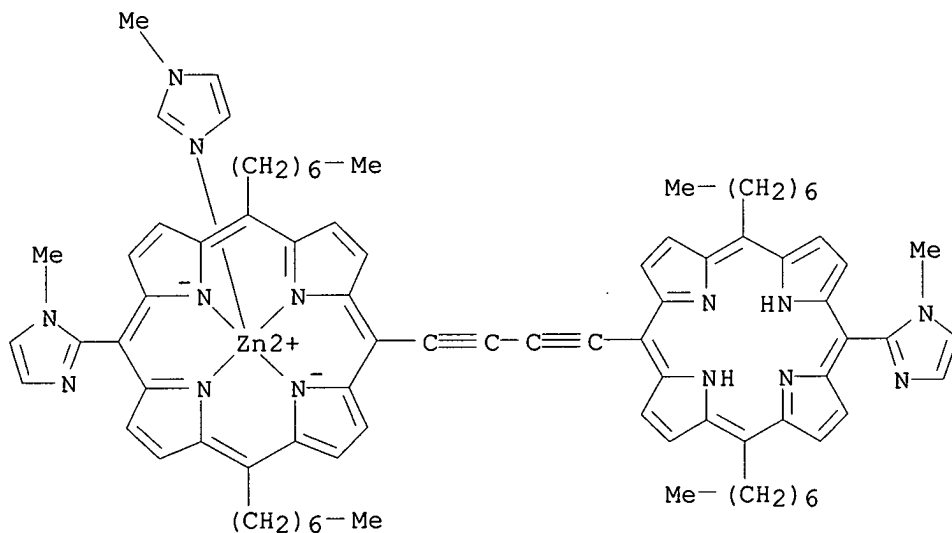
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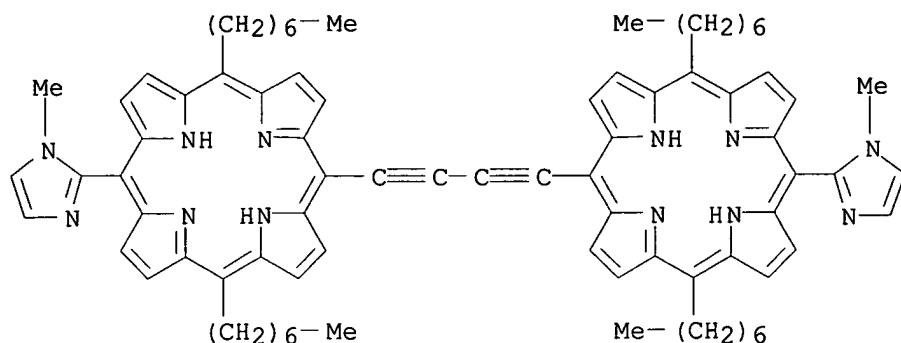
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RN 629668-90-2 REGISTRY
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MF C84 H94 N14 Zn
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



2 REFERENCES IN FILE CA (1907 TO DATE)
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L3 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-87-7 REGISTRY
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OTHER NAMES:
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MF C80 H90 N12
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA Caplus document type: Journal; Patent
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RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT

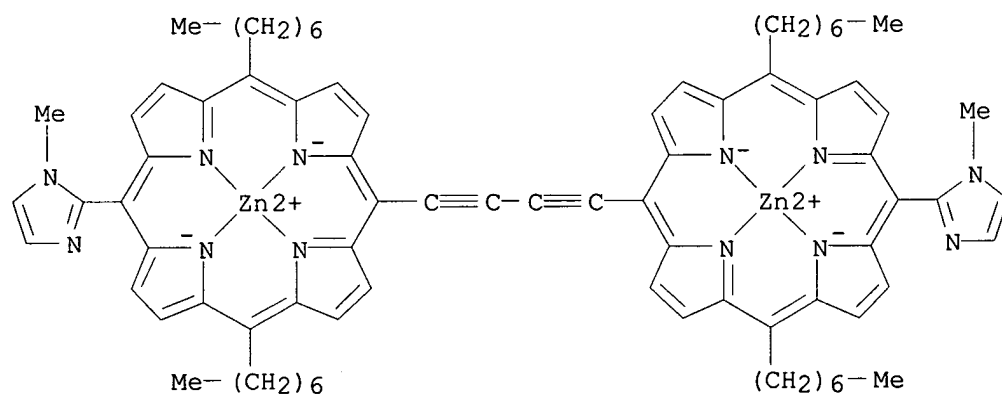
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RN 629668-86-6 REGISTRY
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DT.CA Caplus document type: Journal; Patent
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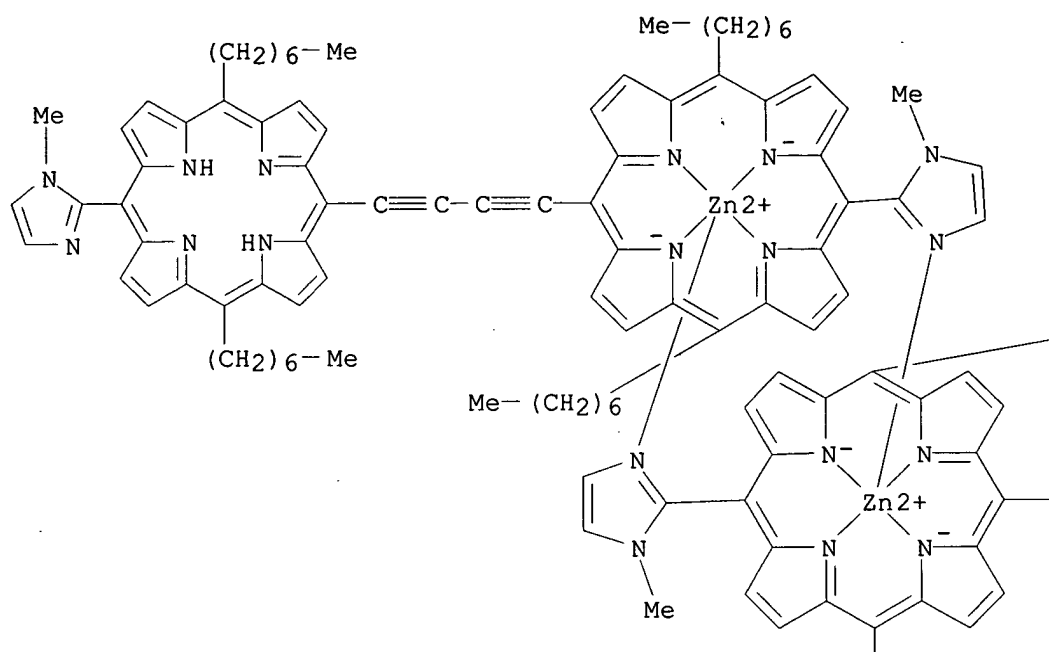
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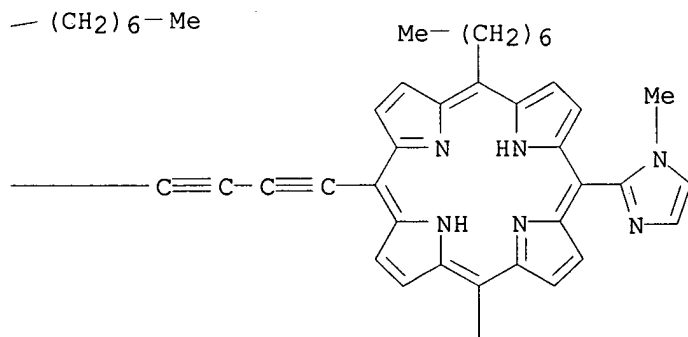
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RN 629668-84-4 REGISTRY
CN Zinc, bis[μ -[5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl- κ N3)-21H,23H-porphinato(2-)- κ N21, κ N22, κ N23, κ N24]]di- (9CI) (CA INDEX NAME)
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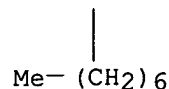
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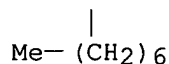
PAGE 1-B



PAGE 2-A



PAGE 2-B



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
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FILE 'REGISTRY' ENTERED AT 11:48:26 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

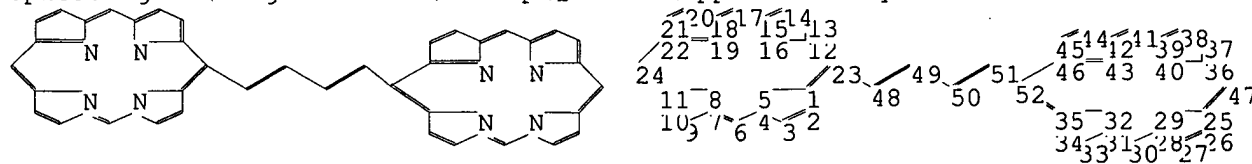
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

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Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493b.str



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ring nodes :
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exact/norm bonds :
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Match level :
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20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
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L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> s 15 sss full

FULL SEARCH INITIATED 11:48:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 426 TO ITERATE

100.0% PROCESSED 426 ITERATIONS

101 ANSWERS

SEARCH TIME: 00.00.01

L6 101 SEA SSS FUL L4

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE 'REGISTRY' ENTERED AT 11:50:26 ON 09 MAR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

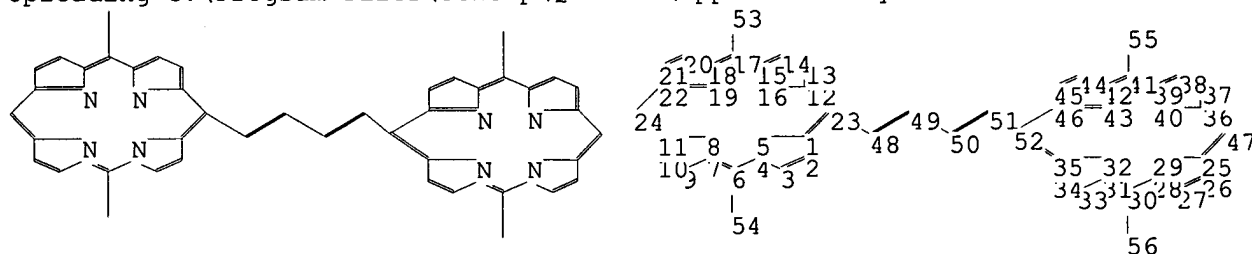
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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

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Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493c.str



chain nodes :

48 49 50 51 53 54 55 56

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 52

chain bonds :

6-54 17-53 23-48 30-56 41-55 48-49 49-50 50-51 51-52

ring bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
33-34 34-35 35-52 36-37 36-40 36-47 37-38 38-39 39-40 39-41 41-42 42-43
42-44 43-46 44-45 45-46 46-52

exact/norm bonds :

7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40

exact bonds :

6-54 17-53 23-48 30-56 41-55 48-49 49-50 50-51 51-52

normalized bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23
13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29
25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-52 36-37 36-47
37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-52

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom
 47:Atom 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:Atom 53:CLASS 54:CLASS
 55:CLASS 56:CLASS

L7 STRUCTURE UPLOADED

=> que L7

L8 QUE L7

=> s 18 sss full

FULL SEARCH INITIATED 11:50:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 426 TO ITERATE

100.0% PROCESSED 426 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.01

L9 15 SEA SSS FUL L7

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L9 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN

RN 836627-44-2 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

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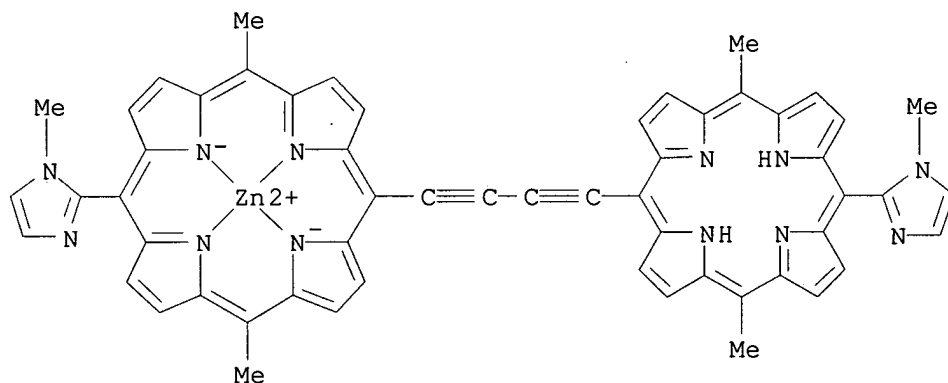
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SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)



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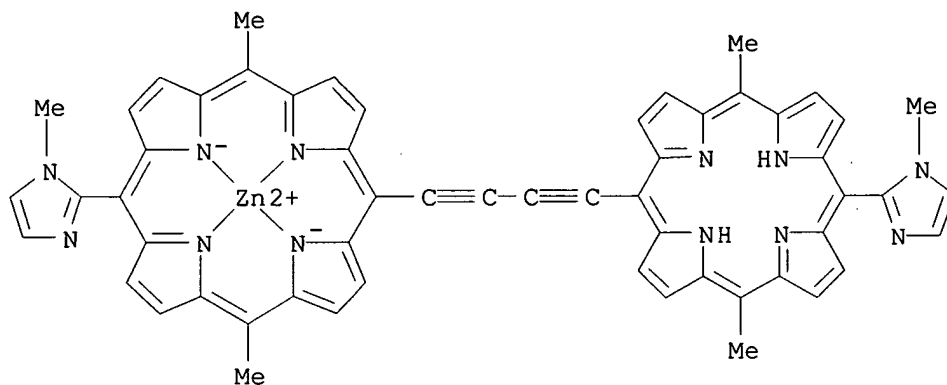
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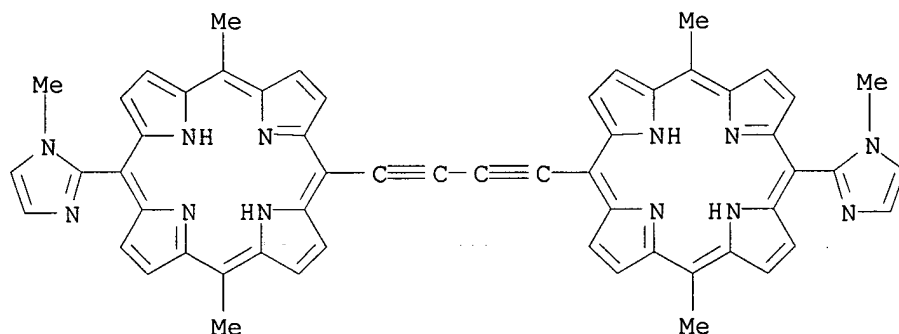
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 LC STN Files: CA, CAPLUS
 DT.CA CPlus document type: Journal
 RL.NP Roles from non-patents: PRP (Properties)



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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 836624-16-9 REGISTRY
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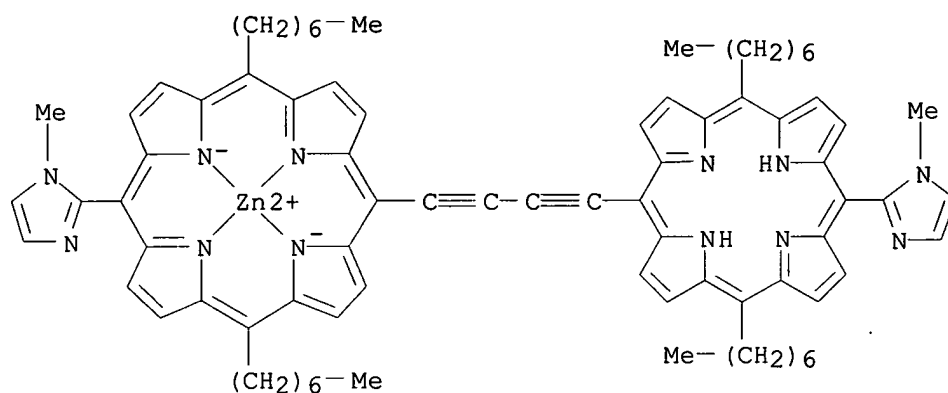


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 MF C80 H88 N12 Zn
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SR CA
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 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



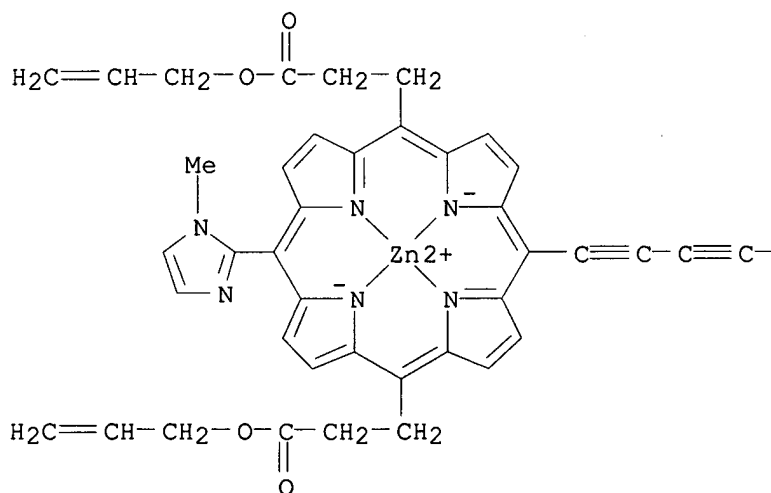
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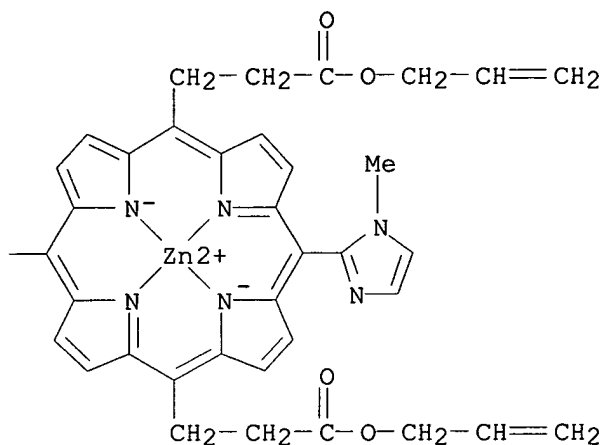
L9 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 679402-88-1 REGISTRY
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 (CA INDEX NAME)
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 CI PMS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 679402-86-9
 CMF C76 H62 N12 O8 Zn2
 CCI CCS

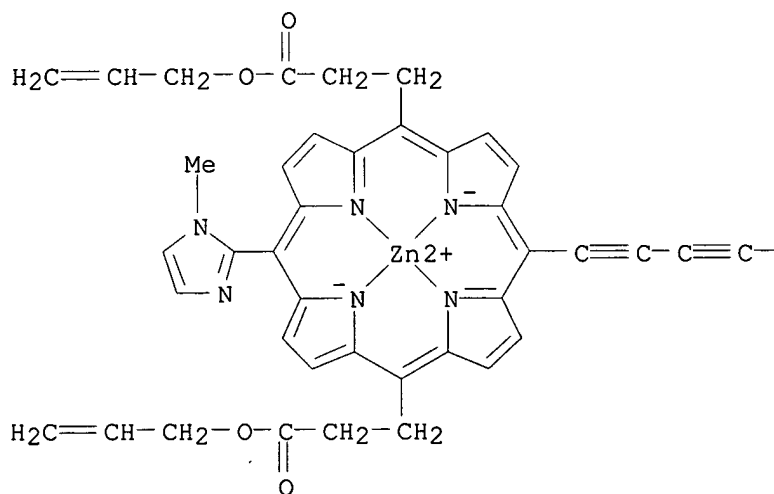
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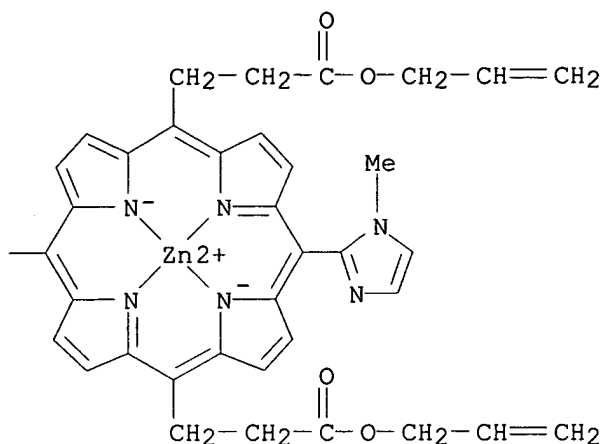




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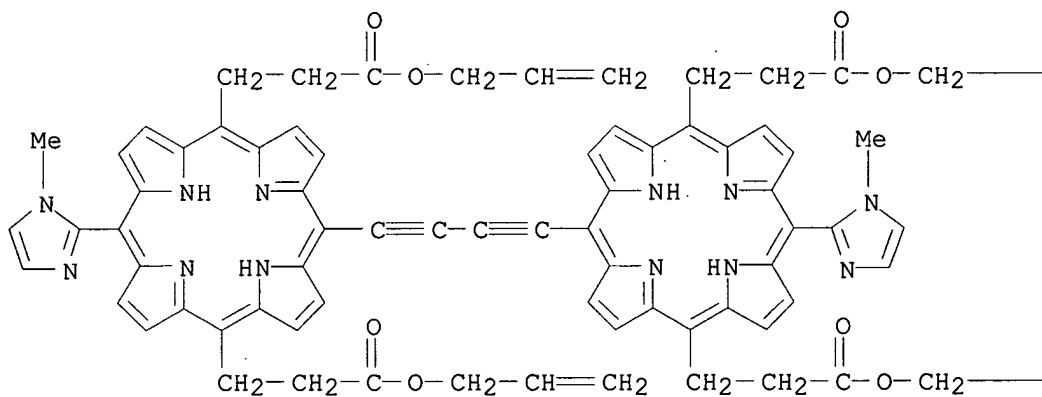
L9 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 679402-86-9 REGISTRY
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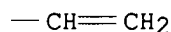
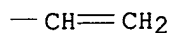




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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 679402-83-6 REGISTRY
CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetra-2-propenyl ester (9CI)
(CA INDEX NAME)
MF C76 H66 N12 O8
SR CA
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DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

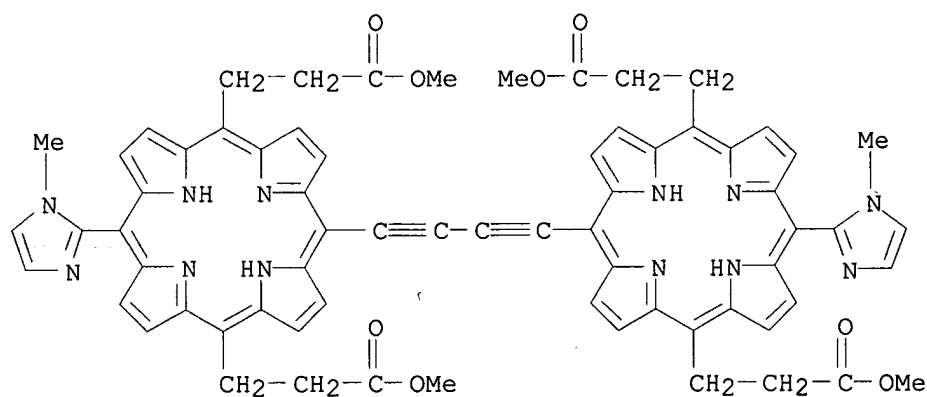




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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 679402-81-4 REGISTRY
CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetramethyl ester (9CI) (CA INDEX NAME)
MF C68 H58 N12 O8
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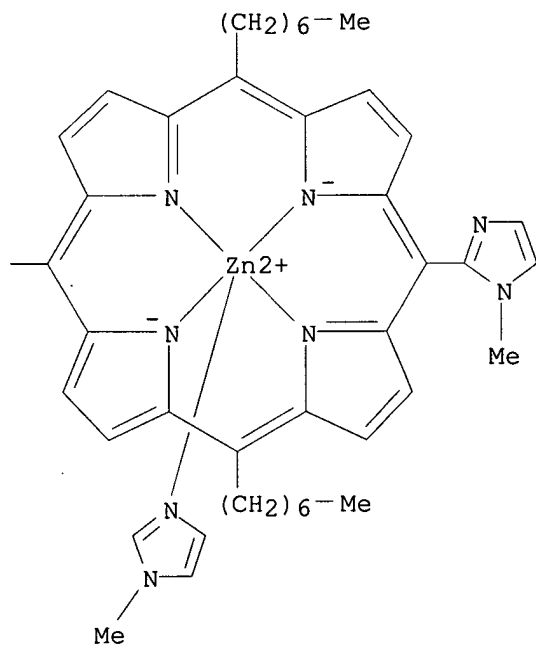
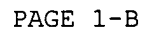


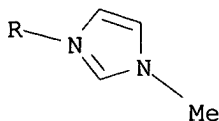
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 629668-91-3 REGISTRY
CN Zinc, [μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato- κ N21, κ N22, κ N23,.kap pa.N24]](4-)]bis(1-methyl-1H-imidazole- κ N3)di- (9CI) (CA INDEX NAME)

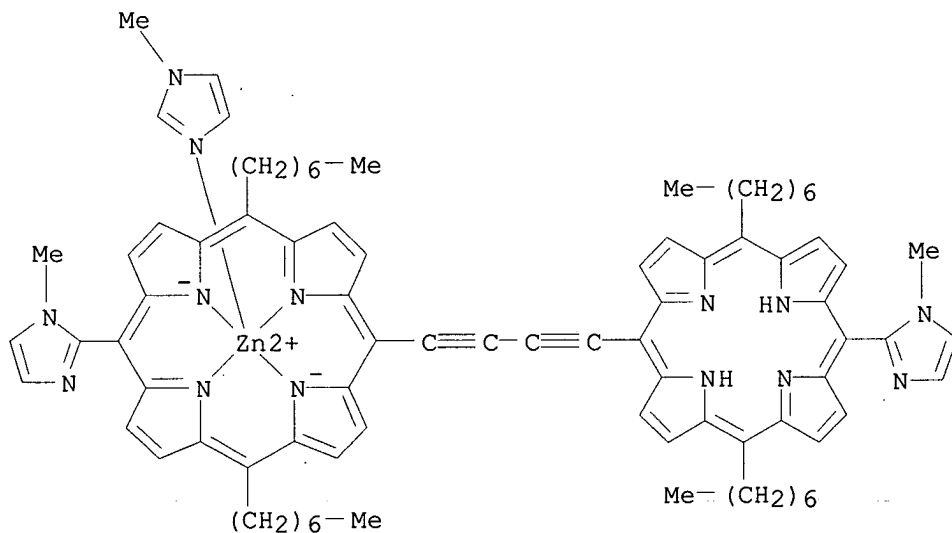
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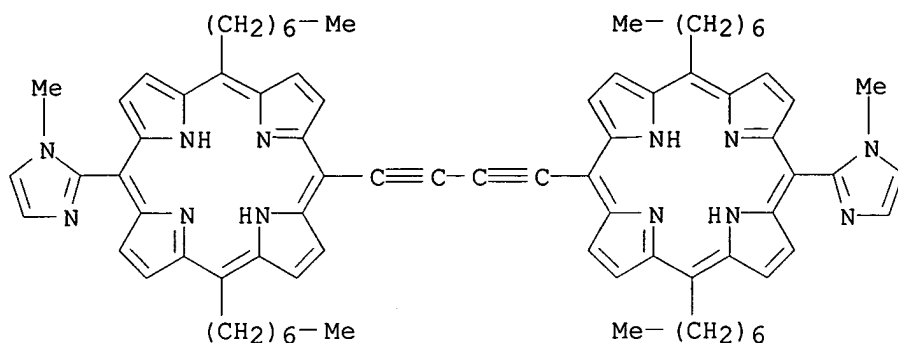
L9 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-90-2 REGISTRY
CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24](1-methyl-1H-imidazole-κN3)-, (SP-5-13)- (9CI) (CA INDEX NAME)
MF C84 H94 N14 Zn
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



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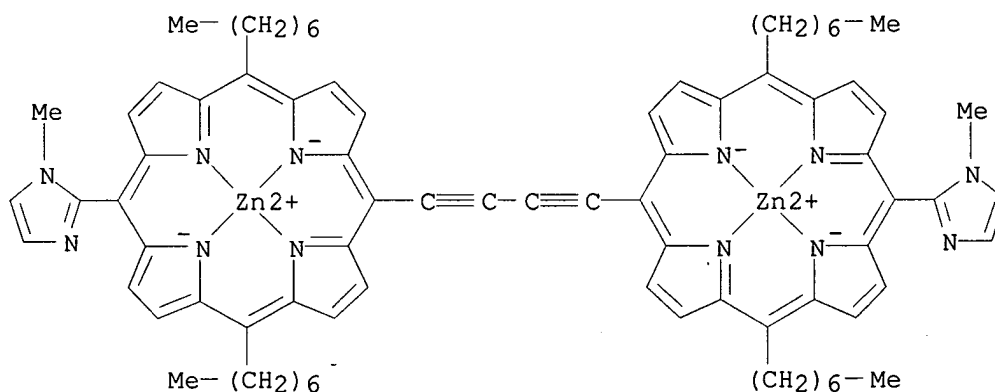
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RN 629668-87-7 REGISTRY
CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,4-Bis[15-(1-methyl-2-imidazolyl)-10,20-diheptylporphyrin-5-yl]-1,3-butadiyne
MF C80 H90 N12
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT

(Reactant or reagent)



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-86-6 REGISTRY
CN Zinc, [μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)]-21H,23H-porphinato- κ N21, κ N22, κ N23,.kap pa.N24]](4-)]di- (9CI) (CA INDEX NAME)
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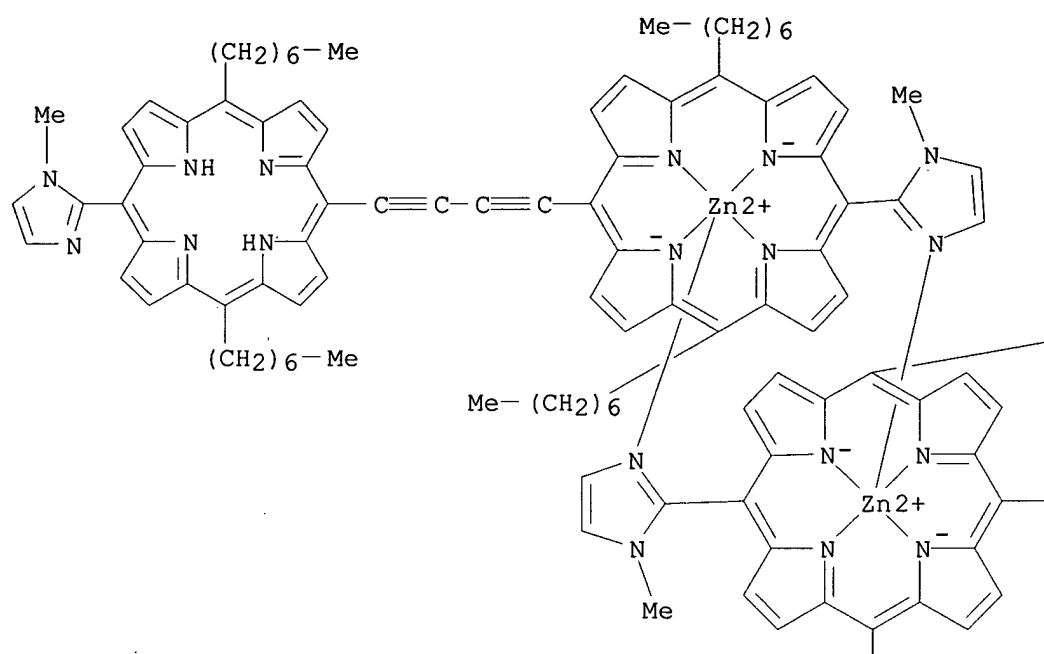


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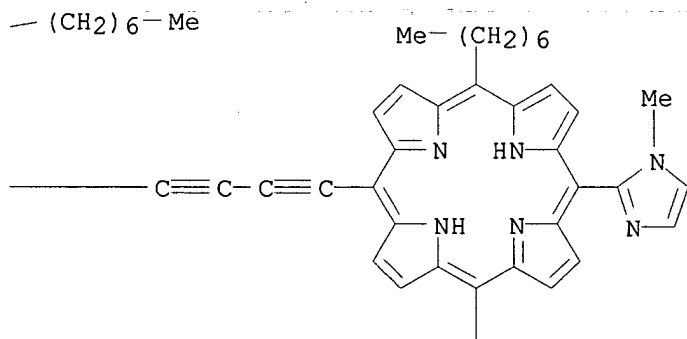
L9 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-84-4 REGISTRY
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DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); PRP (Properties)

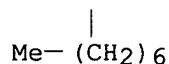
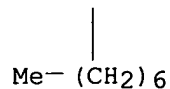
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)

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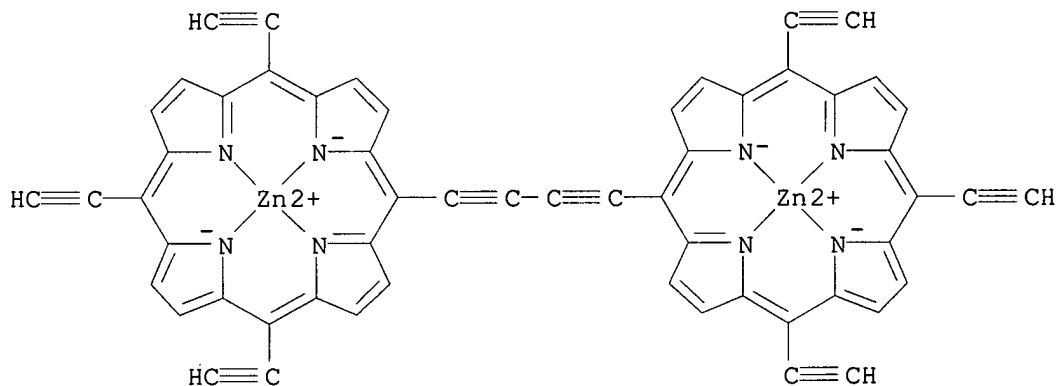
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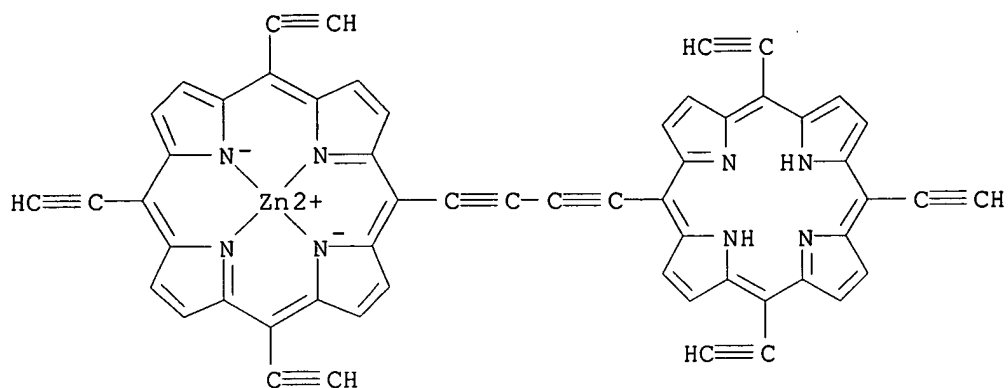
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3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 202860-13-7 REGISTRY
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(CA INDEX NAME)
MF C56 H22 N8 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
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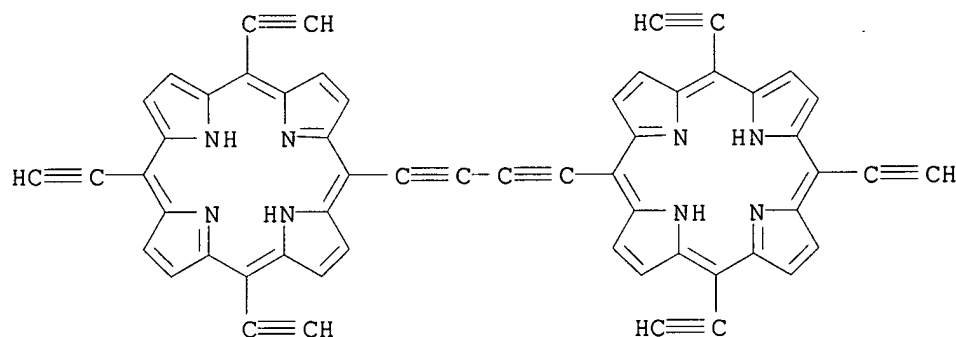
L9 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2005 ACS on STN
RN 202860-12-6 REGISTRY
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MF C56 H24 N8 Zn
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 RN 202860-10-4 REGISTRY
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 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

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536.34

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

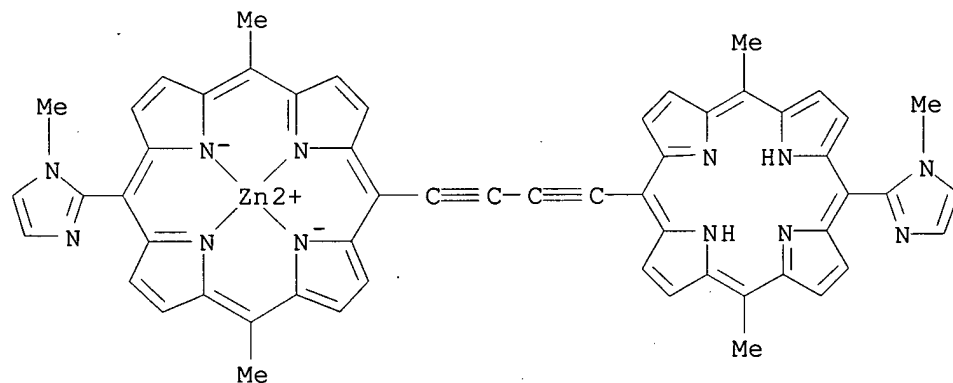
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
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to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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(836627-44-2/RN)

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RN 836627-44-2 REGISTRY
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SR CA
LC STN Files: CA, CAPLUS
DT.CA Cplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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SET COMMAND COMPLETED

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L11

L12 1 L11

=> DIS L12 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:1011874 CAPLUS
DN 142:206702
TI An insight into a novel class of self-assembled porphyrins: Geometric
structure, electronic structure, one- and two-photon absorption properties
AU Zhou, Xin; Ren, Ai-Min; Feng, Ji-Kang
CS State Key Laboratory of Theoretical and Computational Chemistry Institute
of Theoretical Chemistry, and College of Chemistry, Jilin University,
Changchun, 130023, Peop. Rep. China
SO Chemistry--A European Journal (2004), 10(22), 5623-5631
CODEN: CEUJED; ISSN: 0947-6539
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

<-----User Break----->

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.90	542.02

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:57:39 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 836624-16-9

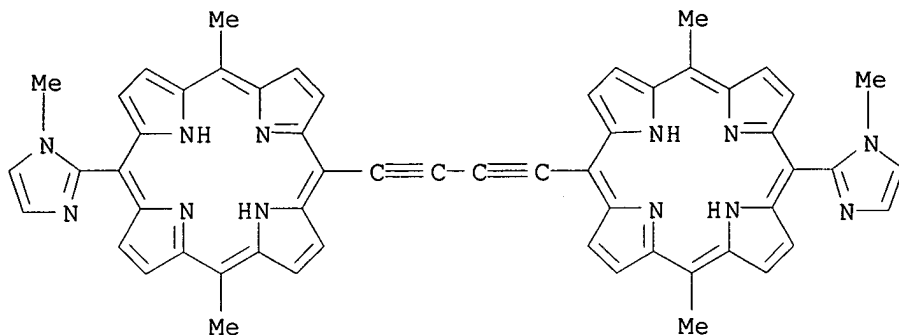
L13 1 836624-16-9
(836624-16-9/RN)

=> d 113

THE ESTIMATED COST FOR THIS REQUEST IS 1.84 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 836624-16-9 REGISTRY

CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-dimethyl-15-(1-methyl-1H-imidazol-2-yl)-(9CI) (CA INDEX NAME)
 MF C56 H42 N12
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.70	544.72

FILE 'REGISTRY' ENTERED AT 11:58:44 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L13 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L14 1 836624-16-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	545.23

FILE 'CAPLUS' ENTERED AT 11:58:48 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L14

L15 1 L14

=> DIS L15 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:1011874 CAPLUS

DN 142:206702

TI An insight into a novel class of self-assembled porphyrins: Geometric structure, electronic structure, one- and two-photon absorption properties

AU Zhou, Xin; Ren, Ai-Min; Feng, Ji-Kang

CS State Key Laboratory of Theoretical and Computational Chemistry Institute of Theoretical Chemistry, and College of Chemistry, Jilin University, Changchun, 130023, Peop. Rep. China

SO Chemistry--A European Journal (2004), 10(22), 5623-5631

CODEN: CEUJED; ISSN: 0947-6539

PB Wiley-VCH Verlag GmbH & Co. KGaA

DT Journal

LA English

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
1.55	546.78

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 11:58:57 ON 09 MAR 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0.06	546.84

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:59:06 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file registry
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0.45	547.29

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:59:15 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 694453-85-5

L16 1 694453-85-5
(694453-85-5/RN)

=> s l16

L17 1 694453-85-5
(694453-85-5/RN)

=> d l16

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 694453-85-5 REGISTRY

CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

MF C80 H88 N12 Zn

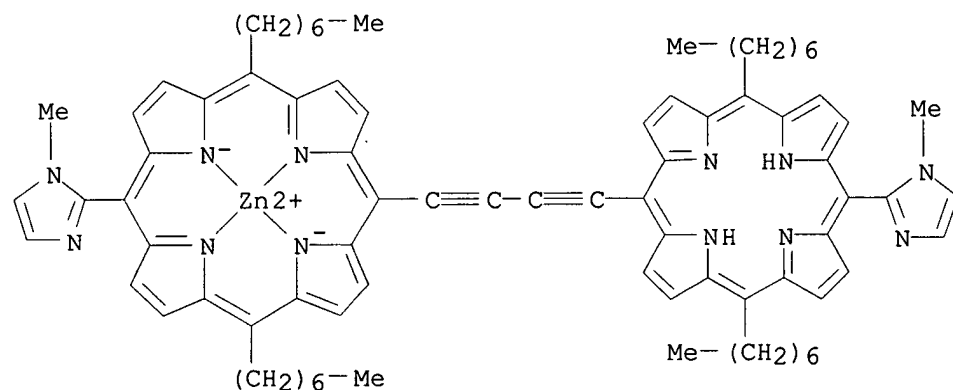
CI CCS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.27

549.56

FILE 'REGISTRY' ENTERED AT 11:59:49 ON 09 MAR 2005

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L16 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L18 1 694453-85-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	550.07

FILE 'USPATFULL' ENTERED AT 11:59:54 ON 09 MAR 2005
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<

```
>>> through the new cluster USPATALL.  Type FILE USPATALL to      <<<
>>> enter this cluster.                                           <<<
>>>                                                                <<<
>>> Use USPATALL when searching terms such as patent assignees,   <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.                         <<<
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L18

L19 1 L18

=> DIS L19 1

L19 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file reigistry

'REIGISTRY' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'USPATFULL'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> s 679402-88-1

L20 0 679402-88-1

=> s 679402-88-1

L21 0 679402-88-1

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.78	553.85

FILE 'REGISTRY' ENTERED AT 12:01:20 ON 09 MAR 2005

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-88-1
L22 1 679402-88-1
(679402-88-1/RN)

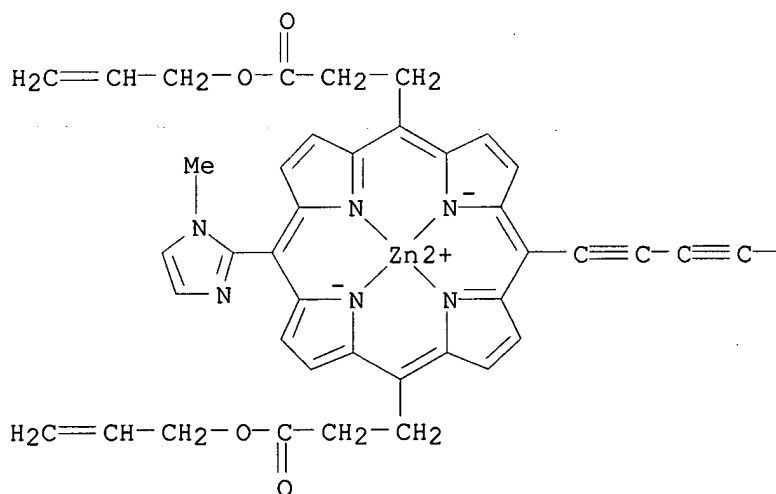
=> d 122

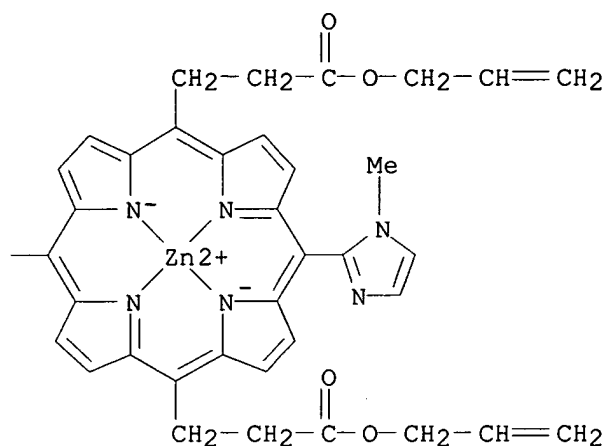
L22 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **679402-88-1** REGISTRY
CN Zinc, [μ -[[tetra-2-propenyl 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphine-5,15-dipropanoato- κ N21, κ N22, κ N23, κ N24]](4-)]di-, homopolymer (9CI)
(CA INDEX NAME)
MF (C76 H62 N12 O8 Zn2)x
CI PMS
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 679402-86-9
CMF C76 H62 N12 O8 Zn2
CCI CCS

PAGE 1-A





2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	556.12

FILE 'REGISTRY' ENTERED AT 12:01:54 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L22 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L23 1 679402-88-1/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	556.63

FILE 'USPATFULL' ENTERED AT 12:01:58 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L23

L24 2 L23

=> DIS L24 1

L24 ANSWER 1 OF 2 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and
including, as structural unit, bis(imidazolylporphyrin metal complex)
linked with acetylenic bond and the derivative thereof, and method of
producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119

DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.38	559.01

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:02:45 ON 09 MAR 2005
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provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s v694453-85-5
L25 0 V694453-85-5

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.03	564.04

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:03:10 ON 09 MAR 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more

information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 694453-85-5

L26 1 694453-85-5
(694453-85-5/RN)

=> d 126

L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 694453-85-5 REGISTRY

CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-
5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-
21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24]-,
(SP-4-2)- (9CI) (CA INDEX NAME)

MF C80 H88 N12 Zn

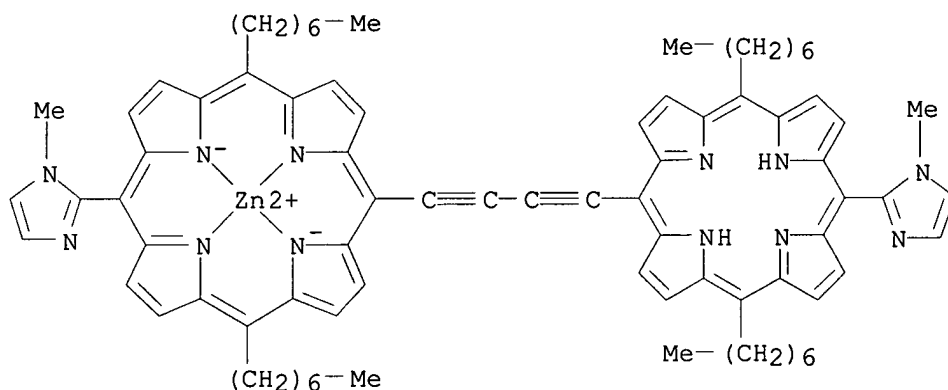
CI CCS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	566.31

FILE 'REGISTRY' ENTERED AT 12:03:44 ON 09 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L26 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L27 1 694453-85-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	566.82

FILE 'USPATFULL' ENTERED AT 12:03:48 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

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>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L27

L28 1 L27

=> DIS L28 1

L28 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and including, as structural unit, bis(imidazolylporphyrin metal complex) linked with acetylenic bond and the derivative thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.38	569.20

FILE 'REGISTRY' ENTERED AT 12:04:02 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L26 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L29 1 694453-85-5/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	569.71

FILE 'CAPLUS' ENTERED AT 12:04:06 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L29

L30 1 L29

=> DIS L30 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:451666 CAPLUS

DN 141:16270

TI Preparation of porphyrin arrays exhibiting large two photon absorption and including, as a structural unit, bis(imidazolylporphyrin metal complex) linked with an acetylenic bond and their derivatives

IN Kobuke, Yoshiaki; Ogawa, Kazuya

PA Japan

SO U.S. Pat. Appl. Publ., 35 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

PI	US 2004106787	A1	20040603	US 2003-715493	20031119
	JP 2004168690	A2	20040617	JP 2002-335246	20021119
PRAI	JP 2002-335246	A	20021119		
OS	MARPAT 141:16270				

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.00

571.71

FILE 'REGISTRY' ENTERED AT 12:05:13 ON 09 MAR 2005

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-86-9

L31 1 679402-86-9
 (679402-86-9/RN)

=> d 131

L31 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 679402-86-9 REGISTRY

CN Zinc, [μ -[[tetra-2-propenyl 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphine-5,15-dipropanoato- κ N21, κ N22, κ N23, κ N24]](4-)]di- (9CI) (CA INDEX NAME)

MF C76 H62 N12 O8 Zn2

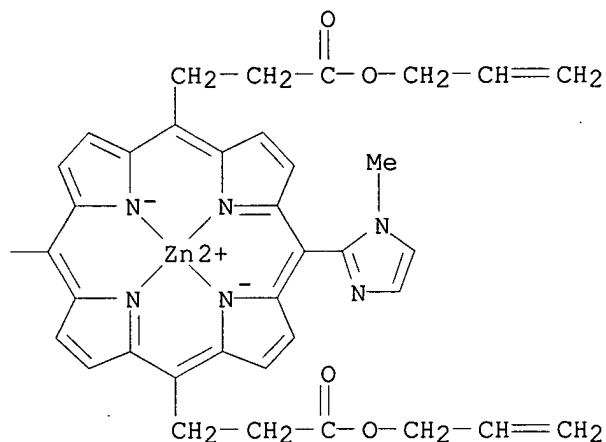
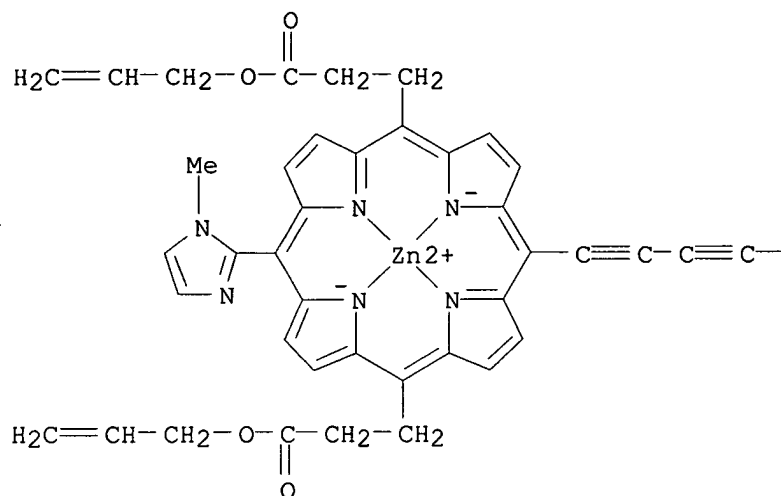
CI CCS, COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	573.98

FILE 'REGISTRY' ENTERED AT 12:05:55 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L31 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L32 1 679402-86-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	574.49

FILE 'USPATFULL' ENTERED AT 12:06:02 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
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>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
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>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
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>>> Use USPATALL when searching terms such as patent assignees, <<<
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>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L32

L33 2 L32

=> DIS L33 1

L33 ANSWER 1 OF 2 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and
including, as structural unit, bis(imidazolylporphyrin metal complex)
linked with acetylenic bond and the derivative thereof, and method of
producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> DIS L33 2

L33 ANSWER 2 OF 2 USPATFULL on STN
AN 2004:95533 USPATFULL
TI Covalently fixed porphyrin polymer having porphyrin metal complex
substituted with coordinating hetero aromatic ring as constituting unit
thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Satake, Akiharu, Ikoma-shi, JAPAN
PI US 2004072988 A1 20040415
AI US 2003-419767 A1 20030422 (10)
PRAI JP 2002-281616 20020926
DT Utility
FS APPLICATION
LN.CNT 2303
INCL INCLM: 528/395.000
NCL NCLM: 528/395.000
IC [7]
ICM: C08G079-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.94

583.43

FILE 'REGISTRY' ENTERED AT 12:09:03 ON 09 MAR 2005

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

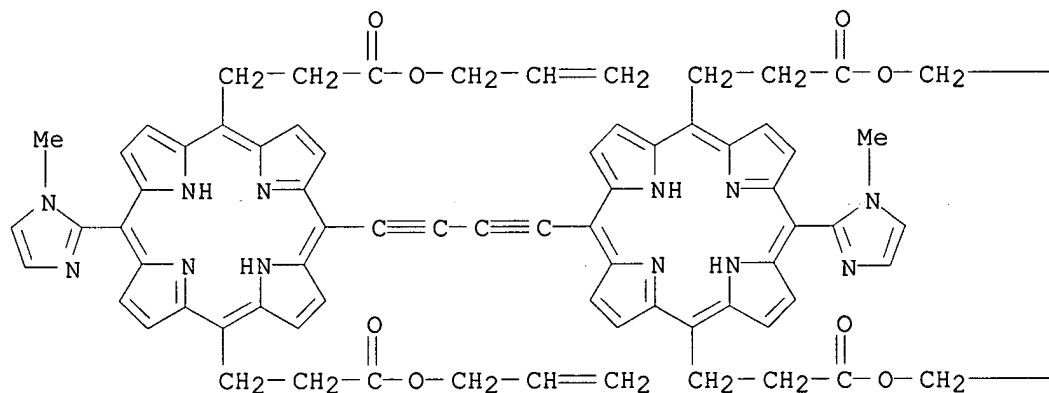
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-83-6
L34 1 679402-83-6
(679402-83-6/RN)

=> d 134

L34 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **679402-83-6** REGISTRY
CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-diyl)bis[20-(1-methyl-1H-imidazol-2-yl)-, tetra-2-propenyl ester (9CI)
(CA INDEX NAME)
MF C76 H66 N12 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

PAGE 1-A



—CH=CH₂

—CH=CH₂

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	585.70

FILE 'REGISTRY' ENTERED AT 12:09:21 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L34 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L35 1 679402-83-6/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	586.21

FILE 'USPATFULL' ENTERED AT 12:09:26 ON 09 MAR 2005
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
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>>> records and may be searched in standard search fields, e.g., /PN, <<<
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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L35

L36 2 L35

=> DIS L36 1

L36 ANSWER 1 OF 2 USPATFULL on STN

AN 2004:139611 USPATFULL

TI Porphyrin array exhibiting large two photon absorption property and
including, as structural unit, bis(imidazolylporphyrin metal complex)
linked with acetylenic bond and the derivative thereof, and method of
producing the same

IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN

Ogawa, Kazuya, Ikoma-shi, JAPAN

PI US 2004106787 A1 20040603

AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> DIS L36 2

L36 ANSWER 2 OF 2 USPATFULL on STN
AN 2004:95533 USPATFULL
TI Covalently fixed porphyrin polymer having porphyrin metal complex
substituted with coordinating hetero aromatic ring as constituting unit
thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Satake, Akiharu, Ikoma-shi, JAPAN
PI US 2004072988 A1 20040415
AI US 2003-419767 A1 20030422 (10)
PRAI JP 2002-281616 20020926
DT Utility
FS APPLICATION
LN.CNT 2303
INCL INCLM: 528/395.000
NCL NCLM: 528/395.000
IC [7]
ICM: C08G079-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.74	590.95

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

0.43 591.38

FILE 'REGISTRY' ENTERED AT 12:10:40 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

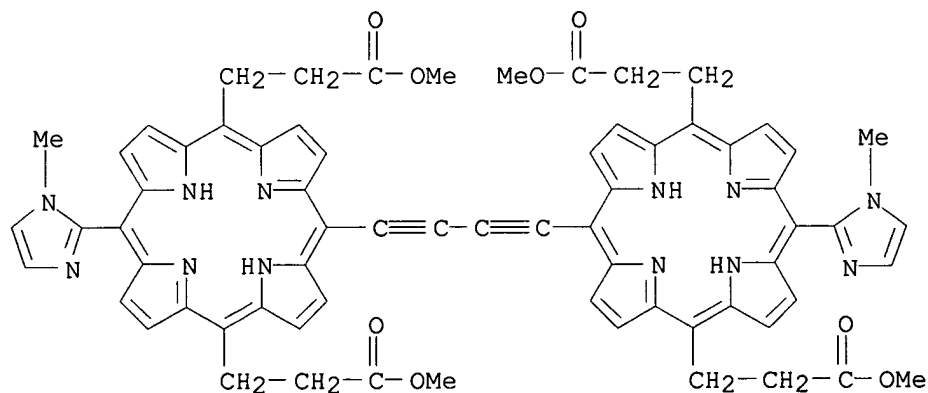
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 679402-81-4
L37 1 679402-81-4
(679402-81-4/RN)

=> s 137
L38 1 679402-81-4
(679402-81-4/RN)

=> d 138

L38 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN **679402-81-4** REGISTRY
CN 21H,23H-Porphine-5,15-dipropanoic acid, 10,10'-(1,3-butadiyne-1,4-
diyl)bis(20-(1-methyl-1H-imidazol-2-yl)-, tetramethyl ester (9CI) (CA
INDEX NAME)
MF C68 H58 N12 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	593.65

FILE 'REGISTRY' ENTERED AT 12:11:05 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L38 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L39 1 679402-81-4/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	594.16

FILE 'USPATFULL' ENTERED AT 12:11:11 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747

HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

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>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L39

L40 2 L39

=> DIS L40 1

L40 ANSWER 1 OF 2 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and
including, as structural unit, bis(imidazolylporphyrin metal complex)
linked with acetylenic bond and the derivative thereof, and method of
producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> DIS L40 2

L40 ANSWER 2 OF 2 USPATFULL on STN
AN 2004:95533 USPATFULL
TI Covalently fixed porphyrin polymer having porphyrin metal complex
substituted with coordinating hetero aromatic ring as constituting unit
thereof, and method of producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Satake, Akiharu, Ikoma-shi, JAPAN

PI US 2004072988 A1 20040415
AI US 2003-419767 A1 20030422 (10)
PRAI JP 2002-281616 20020926
DT Utility
FS APPLICATION
LN.CNT 2303
INCL INCLM: 528/395.000
NCL NCLM: 528/395.000
IC [7]
ICM: C08G079-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.34	597.50

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:11:41 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

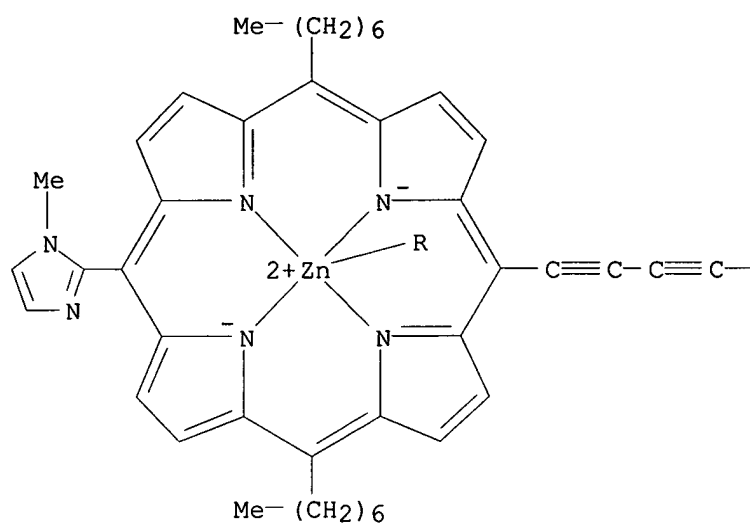
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-91-3
L41 1 629668-91-3
(629668-91-3/RN)

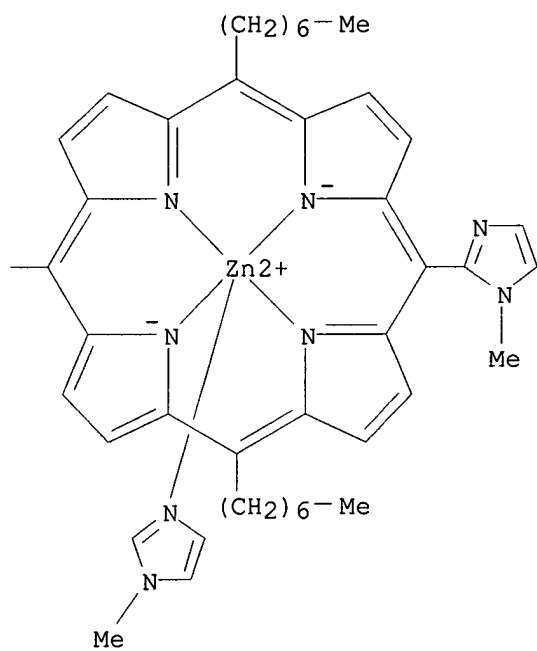
=> d 141

L41 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-91-3 REGISTRY
CN Zinc, [μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato- κ N21, κ N22, κ N23,.kap
pa.N24]](4-)]bis(1-methyl-1H-imidazole- κ N3)di- (9CI) (CA INDEX
NAME)
MF C88 H98 N16 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

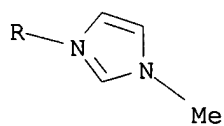
PAGE 1-A



PAGE 1-B



PAGE 2-A



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	599.77

FILE 'REGISTRY' ENTERED AT 12:11:59 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L41 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L42 1 629668-91-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	600.28

FILE 'CAPLUS' ENTERED AT 12:12:04 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L42

L43 2 L42

=> DIS L43 1-

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 2.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L43 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:164564 CAPLUS
DN 141:306273
TI Strong two-photon absorption of self-assembled butadiyne-linked bisporphyrin. [Erratum to document cited in CA140:022308]
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2004), 126(12), 4050
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English

L43 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:797108 CAPLUS
DN 140:22308
TI Strong Two-Photon Absorption of Self-Assembled Butadiyne-Linked Bisporphyrin
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2003), 125(44), 13356-13357
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:22308
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.65	602.93

FILE 'STNGUIDE' ENTERED AT 12:12:29 ON 09 MAR 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.12	603.05

FILE 'CAPLUS' ENTERED AT 12:13:45 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.45	603.50

FILE 'REGISTRY' ENTERED AT 12:13:51 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSKA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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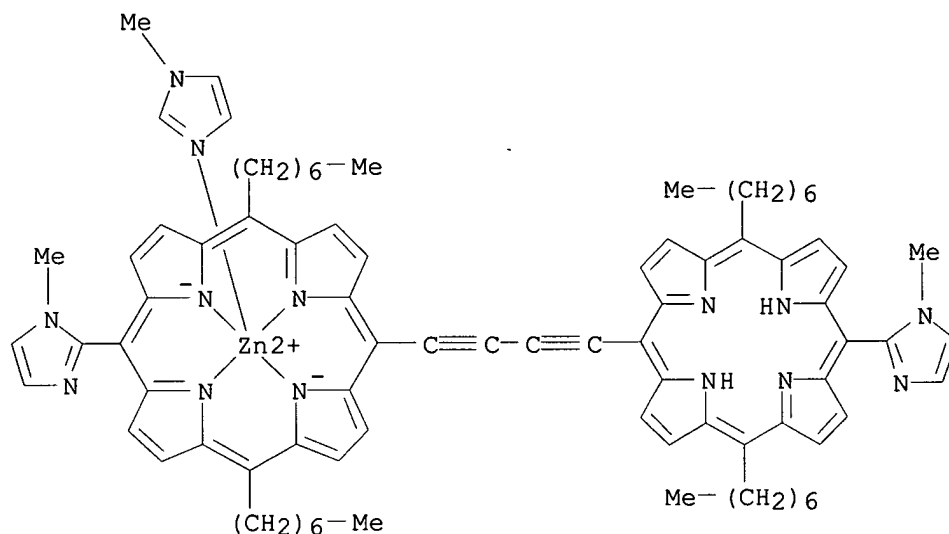
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-90-2
L44 1 629668-90-2
(629668-90-2/RN)

=> d 144

L44 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 629668-90-2 REGISTRY
 CN Zinc, [5-[4-[10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphin-5-yl]-1,3-butadiynyl]-10,20-diheptyl-15-(1-methyl-1H-imidazol-2-yl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24](1-methyl-1H-imidazole-κN3)-, (SP-5-13)- (9CI) (CA INDEX NAME)
 MF C84 H94 N14 Zn
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.27	605.77

FILE 'REGISTRY' ENTERED AT 12:14:13 ON 09 MAR 2005
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 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L44 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L45 1 629668-90-2/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	606.28

FILE 'CAPLUS' ENTERED AT 12:14:18 ON 09 MAR 2005
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FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L45

L46 2 L45

=> DIS L46 1-

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 2.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L46 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:164564 CAPLUS
DN 141:306273

TI Strong two-photon absorption of self-assembled butadiyne-linked
bisporphyrin. [Erratum to document cited in CA140:022308]
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta,
Koji
CS Graduate School of Materials Science, Nara Institute of Science and
Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2004), 126(12), 4050
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English

L46 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:797108 CAPLUS
DN 140:22308
TI Strong Two-Photon Absorption of Self-Assembled Butadiyne-Linked
Bisporphyrin
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta,
Koji
CS Graduate School of Materials Science, Nara Institute of Science and
Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2003), 125(44), 13356-13357
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:22308
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.65	608.93

FILE 'STNGUIDE' ENTERED AT 12:14:36 ON 09 MAR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	608.99

FILE 'CAPLUS' ENTERED AT 12:15:01 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.45	609.44

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:15:14 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

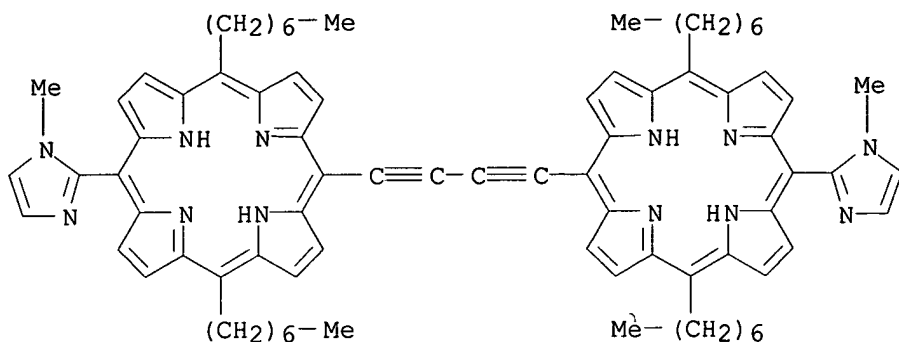
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-87-7
L47 1 629668-87-7
(629668-87-7/RN)

=> d 147

L47 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 629668-87-7 REGISTRY
CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,20-diheptyl-15-(1-
methyl-1H-imidazol-2-yl)-(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,4-Bis[15-(1-methyl-2-imidazolyl)-10,20-diheptylporphyrin-5-yl]-1,3-
butadiyne
MF C80 H90 N12
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	611.71

FILE 'REGISTRY' ENTERED AT 12:15:35 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L47 1 RN.

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L48 1 629668-87-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	612.22

FILE 'USPATFULL' ENTERED AT 12:15:39 ON 09 MAR 2005
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L48

L49 1 L48

=> DIS L49 1

L49 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:139611 USPATFULL
TI Porphyrin array exhibiting large two photon absorption property and
including, as structural unit, bis(imidazolylporphyrin metal complex)
linked with acetylenic bond and the derivative thereof, and method of
producing the same
IN Kobuke, Yoshiaki, Ikoma-shi, JAPAN
Ogawa, Kazuya, Ikoma-shi, JAPAN
PI US 2004106787 A1 20040603
AI US 2003-715493 A1 20031119 (10)
PRAI JP 2002-335246 20021119
DT Utility
FS APPLICATION
LN.CNT 1205
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000

IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.38	614.60

FILE 'REGISTRY' ENTERED AT 12:15:57 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L47 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L50 1 629668-87-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	615.11

FILE 'CASREACT' ENTERED AT 12:16:02 ON 09 MAR 2005
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FILE CONTENT:1840 - 6 Mar 2005 VOL 142 ISS 10

*
* CASREACT now has more than 8 million reactions *
*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L50

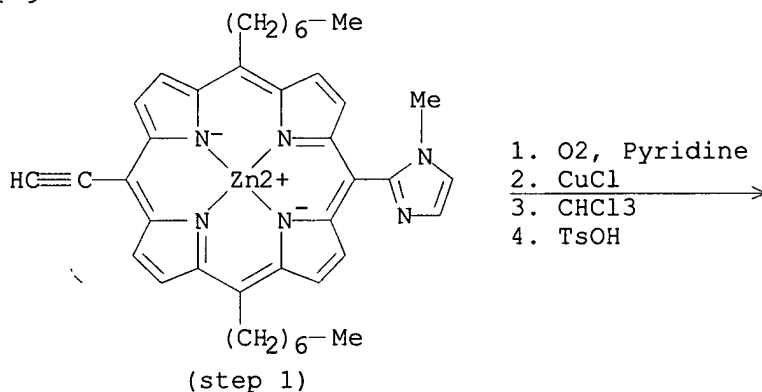
L51. 1 L50

=> DIS L51 1

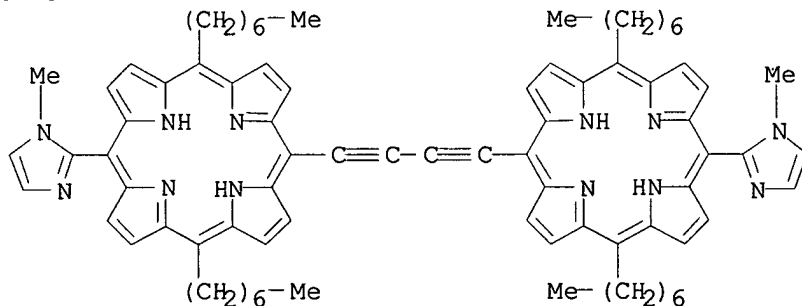
THE ESTIMATED COST FOR THIS REQUEST IS 2.67 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L51 ANSWER 1 OF 1 CASREACT COPYRIGHT 2005 ACS on STN

RX(3) OF 9



RX(3) OF 9



15%

REF: Journal of the American Chemical Society, 125(44), 13356-13357;
2003

NOTE: key step

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.35	645.46

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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L47 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L52 1 629668-87-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	645.97

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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L52

L53 3 L52

=> DIS L53 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L53 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:451666 CAPLUS
DN 141:16270
TI Preparation of porphyrin arrays exhibiting large two photon absorption and including, as a structural unit, bis(imidazolylporphyrin metal complex) linked with an acetylenic bond and their derivatives
IN Kobuke, Yoshiaki; Ogawa, Kazuya
PA Japan
SO U.S. Pat. Appl. Publ., 35 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004106787	A1	20040603	US 2003-715493	20031119
	JP 2004168690	A2	20040617	JP 2002-335246	20021119
PRAI	JP 2002-335246	A	20021119		
OS	MARPAT 141:16270				

=> DIS L53 2

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L53 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:164564 CAPLUS
DN 141:306273
TI Strong two-photon absorption of self-assembled butadiyne-linked bisporphyrin. [Erratum to document cited in CA140:022308]
AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta, Koji
CS Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Nara, 630-0101, Japan
SO Journal of the American Chemical Society (2004), 126(12), 4050
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.65	648.62

FILE 'STNGUIDE' ENTERED AT 12:17:18 ON 09 MAR 2005
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 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.12	648.74

FILE 'CAPLUS' ENTERED AT 12:18:40 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
 FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> DIS L53 3

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L53 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:797108 CAPLUS
 DN 140:22308
 TI Strong Two-Photon Absorption of Self-Assembled Butadiyne-Linked
 Bisporphyrin
 AU Ogawa, Kazuya; Ohashi, Atsushi; Kobuke, Yoshiaki; Kamada, Kenji; Ohta,
 Koji
 CS Graduate School of Materials Science, Nara Institute of Science and
 Technology, Ikoma, Nara, 630-0101, Japan
 SO Journal of the American Chemical Society (2003), 125(44), 13356-13357
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 140:22308
 RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file registry

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
----------------------	------------	-------

	ENTRY	SESSION
FULL ESTIMATED COST	1.55	650.29

FILE 'REGISTRY' ENTERED AT 12:18:59 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 629668-86-6
L54 1 629668-86-6
(629668-86-6/RN)

	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.86	651.15

FILE 'REGISTRY' ENTERED AT 12:20:28 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

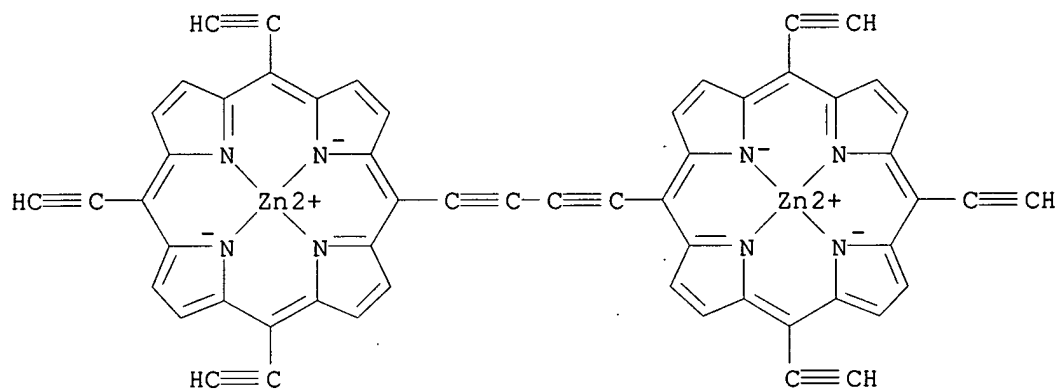
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 202860-13-7
L55 1 202860-13-7
(202860-13-7/RN)

=> d 155

L55 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 202860-13-7 REGISTRY
 CN Zinc, [μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-21H,23H-porphinato- κ N21, κ N22, κ N23, κ N24]](4-)]di- (9CI)
 (CA INDEX NAME)
 MF C56 H22 N8 Zn2
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	653.42

FILE 'REGISTRY' ENTERED AT 12:21:04 ON 09 MAR 2005
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 DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L55 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L56 1 202860-13-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	653.93

FILE 'CAPLUS' ENTERED AT 12:21:08 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L56

L57 1 L56

=> DIS L57 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L57 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:33809 CAPLUS
DN 128:167041
TI DFT study of alkynylporphyrin dimers and brominated tetraphenylporphyrins
AU Wang, Zhiqiang; Day, Paul; Pachter, Ruth; Mclean, Daniel G.
CS Materials Directorate, Wright Laboratory, WL/MLPJ Wright-Patterson Air Force Base, OH, 45433-7702, USA
SO Materials Research Society Symposium Proceedings (1997), 479(Materials for Optical Limiting II), 331-336
CODEN: MRSPDH; ISSN: 0272-9172
PB Materials Research Society
DT Journal
LA English

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.55	655.48

FILE 'STNGUIDE' ENTERED AT 12:21:19 ON 09 MAR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 4, 2005 (20050304/UP).

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	655.54

FILE 'CAPLUS' ENTERED AT 12:22:02 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	655.99

FILE 'REGISTRY' ENTERED AT 12:22:15 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

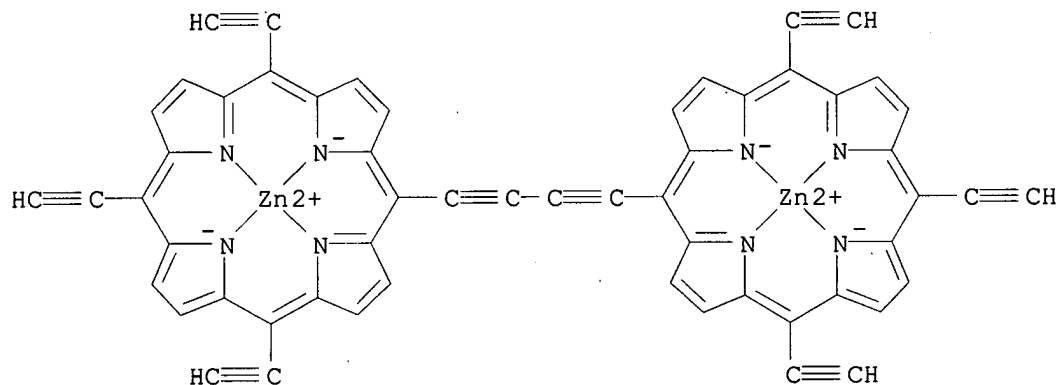
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 202860-13-7

L58 1 202860-13-7
(202860-13-7/RN)

=> d 158

L58 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 202860-13-7 REGISTRY
CN Zinc, [μ -[[5,5'-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-21H,23H-porphinato- κ N21, κ N22, κ N23, κ N24]](4-)]di- (9CI)
(CA INDEX NAME)
MF C56 H22 N8 Zn2
CI CCS
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.27	658.26

FILE 'REGISTRY' ENTERED AT 12:22:35 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L58 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L59 1 202860-13-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	658.77

FILE 'CAPLUS' ENTERED AT 12:22:39 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L59

L60 1 L59

=> DIS L60 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L60 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:33809 CAPLUS
DN 128:167041
TI DFT study of alkynylporphyrin dimers and brominated tetraphenylporphyrins
AU Wang, Zhiqiang; Day, Paul; Pachter, Ruth; Mclean, Daniel G.
CS Materials Directorate, Wright Laboratory, WL/MLPJ Wright-Patterson Air
Force Base, OH, 45433-7702, USA
SO Materials Research Society Symposium Proceedings (1997), 479(Materials for
Optical Limiting II), 331-336
CODEN: MRSPDH; ISSN: 0272-9172
PB Materials Research Society
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	2.90	661.67

FILE 'REGISTRY' ENTERED AT 12:24:58 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

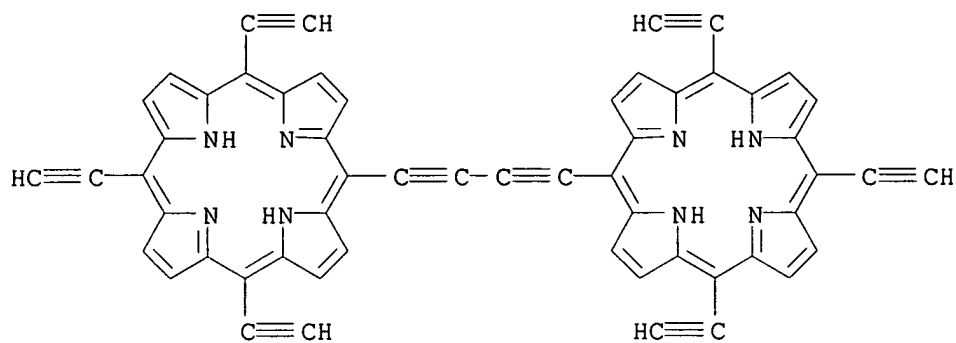
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 202860-10-4
L61 1 202860-10-4
(202860-10-4/RN)

=> d 161

L61 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 202860-10-4 REGISTRY
CN 21H,23H-Porphine, 5,5'-(1,3-butadiyne-1,4-diyl)bis[10,15,20-triethynyl-
(9CI) (CA INDEX NAME)
MF C56 H26 N8
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.27	663.94

FILE 'REGISTRY' ENTERED AT 12:25:16 ON 09 MAR 2005
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STRUCTURE FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0
DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L61 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L62 1 202860-10-4/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	664.45

FILE 'CAPLUS' ENTERED AT 12:25:20 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L62

L63 2 L62

=> DIS L63 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L63 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:49485 CAPLUS
DN 128:204480
TI Density functional theory studies of meso-alkynyl porphyrins
AU Wang, Zhiqiang; Day, Paul N.; Pachter, Ruth
CS Materials and Manufacturing Directorate, Air Force Research Laboratory, AFRL/MLPJ, Wright-Patterson Air Force Base, OH, 45433-7702, USA
SO Journal of Chemical Physics (1998), 108(6), 2504-2510
CODEN: JCPSA6; ISSN: 0021-9606
PB American Institute of Physics
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L63 2

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L63 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:33809 CAPLUS
DN 128:167041

TI DFT study of alkynylporphyrin dimers and brominated tetraphenylporphyrins
 AU Wang, Zhiqiang; Day, Paul; Pachter, Ruth; Mclean, Daniel G.
 CS Materials Directorate, Wright Laboratory, WL/MLPJ Wright-Patterson Air
 Force Base, OH, 45433-7702, USA
 SO Materials Research Society Symposium Proceedings (1997), 479(Materials for
 Optical Limiting II), 331-336
 CODEN: MRSPDH; ISSN: 0272-9172
 PB Materials Research Society
 DT Journal
 LA English
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> end

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.10	667.55

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 12:26:33 ON 09 MAR 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptamlf1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005

NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS
National Meeting on March 13, 2005

NEWS 20 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC

NEWS 21 FEB 28 BABS - Current-awareness alerts (SDIs) available

NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded

NEWS 23 MAR 02 GBFULL: New full-text patent database on STN

NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced

NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:06:29 ON 09 MAR 2005

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:06:40 ON 09 MAR 2005
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DICTIONARY FILE UPDATES: 7 MAR 2005 HIGHEST RN 844431-17-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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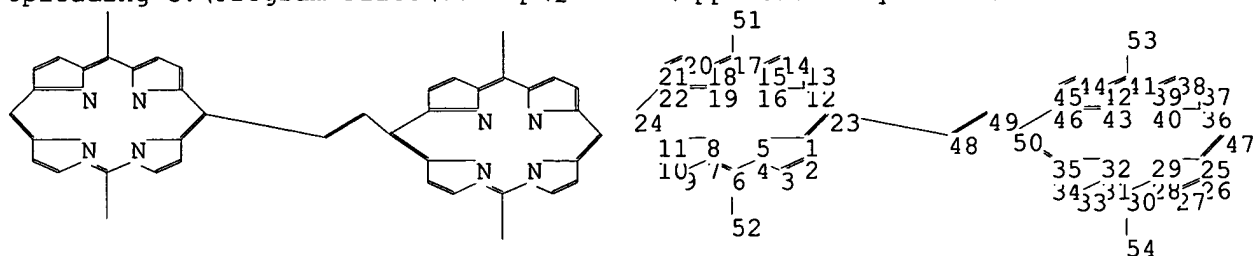
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493d.str



chain nodes :

48 49 51 52 53 54

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 50

chain bonds :

6-52 17-51 23-48 30-54 41-53 48-49 49-50

ring bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
33-34 34-35 35-50 36-37 36-40 36-47 37-38 38-39 39-40 39-41 41-42 42-43
42-44 43-46 44-45 45-46 46-50

exact/norm bonds :

7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40

exact bonds :

6-52 17-51 23-48 30-54 41-53 48-49 49-50

normalized bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23
13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29
25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-50 36-37 36-47
37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-50

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom
47:Atom 48:CLASS 49:CLASS 50:Atom 51:CLASS 52:CLASS 53:CLASS 54:CLASS

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s 12 sss full

FULL SEARCH INITIATED 14:07:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1310 TO ITERATE

100.0% PROCESSED 1310 ITERATIONS
SEARCH TIME: 00.00.01

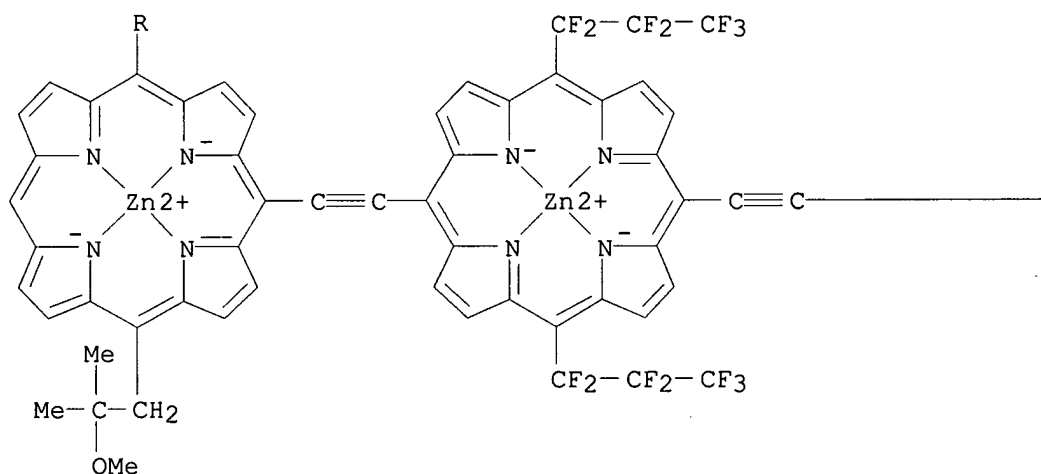
2 ANSWERS

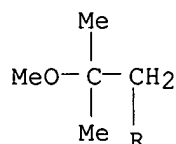
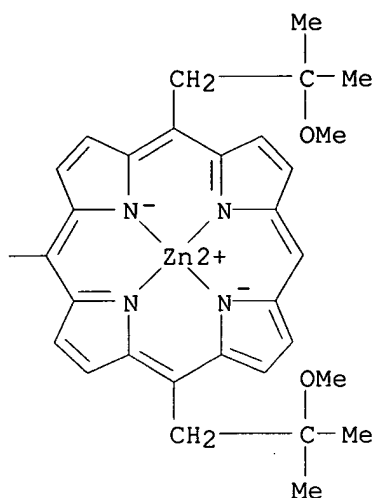
L3 2 SEA SSS FUL L1

=> d 13

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 320730-70-9 REGISTRY
CN Zinc, [μ^3 -[5,15-bis[[10,20-bis(2-methoxy-2-methylpropyl)-21H,23H-porphin-5-yl- κ N21, κ N22, κ N23, κ N24]ethynyl]-10,20-bis(heptafluoropropyl)-21H,23H-porphinato(6-)- κ N21, κ N22, κ N23, κ N24]]tri- (9CI) (CA INDEX NAME)
MF C90 H70 F14 N12 O4 Zn3
CI CCS
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

PAGE 1-A





2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	163.17	163.38

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 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L3 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L4 1 320730-70-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL USPATFULL

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	163.89

FILE 'USPATFULL' ENTERED AT 14:07:25 ON 09 MAR 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Mar 2005 (20050308/PD)
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)
HIGHEST GRANTED PATENT NUMBER: US6865747
HIGHEST APPLICATION PUBLICATION NUMBER: US2005050605
CA INDEXING IS CURRENT THROUGH 8 Mar 2005 (20050308/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Mar 2005 (20050308/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L4

L5 1 L4

=> DIS L5 1

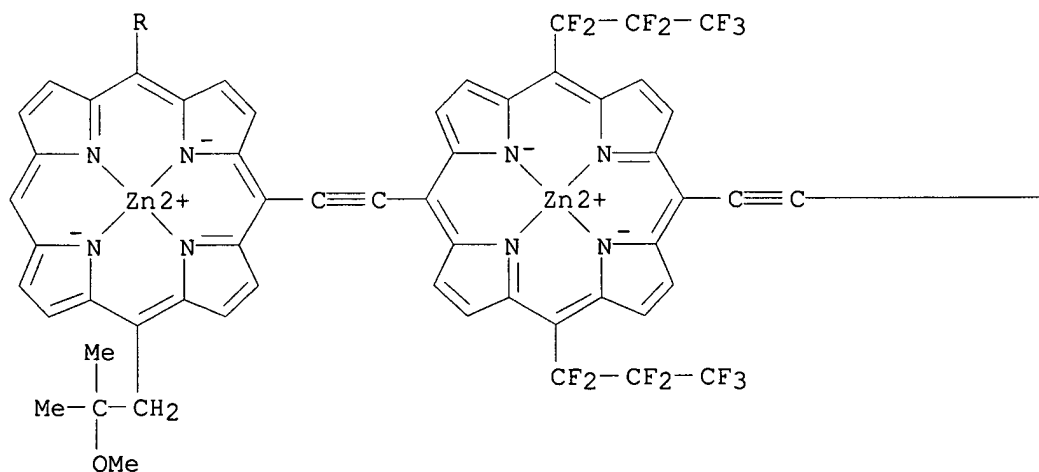
L5 ANSWER 1 OF 1 USPATFULL on STN
AN 2003:238763 USPATFULL
TI Multielectron redox catalysts
IN Therien, Michael J., Philadelphia, PA, UNITED STATES
Fletcher, James T., San Diego, CA, UNITED STATES
PI US 2003166921 A1 20030904
AI US 2002-301017 A1 20021121 (10)
PRAI US 2001-331894P 20011121 (60)
DT Utility
FS APPLICATION
LN.CNT 1788
INCL INCLM: 540/145.000
NCL NCLM: 540/145.000
IC [7]
ICM: C07D487-22
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

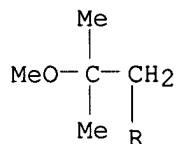
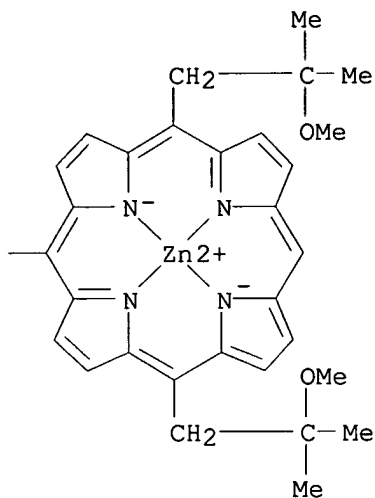
=> d 13 1-2

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 320730-70-9 REGISTRY
CN Zinc, [μ 3-[5,15-bis[[10,20-bis(2-methoxy-2-methylpropyl)-21H,23H-porphin-5-yl- κ N21, κ N22, κ N23, κ N24]ethynyl]-10,20-bis(heptafluoropropyl)-21H,23H-porphinato(6-)- κ N21, κ N22, κ N23, κ N24]]tri- (9CI) (CA INDEX NAME)
MF C90 H70 F14 N12 O4 Zn3
CI CCS
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

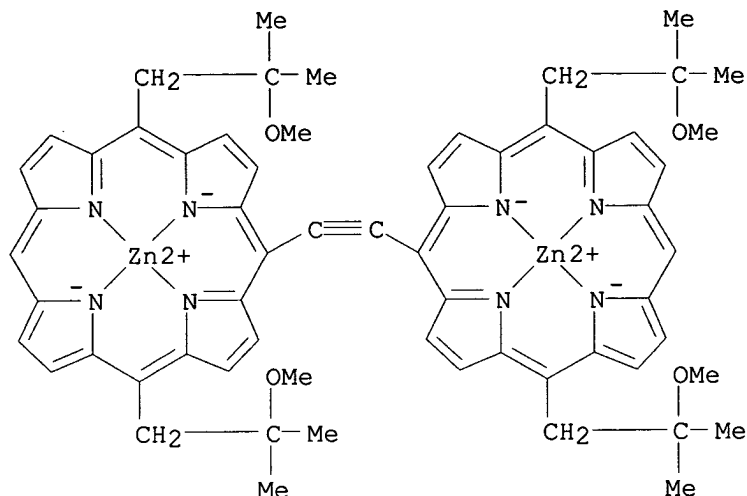
PAGE 1-A





2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 320730-66-3 REGISTRY
 CN Zinc, [μ -[[5,5'-(1,2-ethynediyl)bis[10,20-bis(2-methoxy-2-methylpropyl)-21H,23H-porphinato- κ N21, κ N22, κ N23, κ N24]](4-)]di-(9CI) (CA INDEX NAME)
 MF C62 H62 N8 O4 Zn2
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.40

171.78

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to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L3 2 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L6 1 320730-66-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	172.29

FILE 'CAPLUS' ENTERED AT 14:08:12 ON 09 MAR 2005
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FILE COVERS 1907 - 9 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 8 Mar 2005 (20050308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L6

L7 1 L6

=> DIS L7 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:820312 CAPLUS
DN 134:125155
TI Transition-Metal-Mediated [2 + 2 + 2] Cycloaddition Reactions with Ethyne-Containing Porphyrin Templates: New Routes to Cofacial Porphyrin Structures and Facially-Functionalized (Porphinato)metal Species
AU Fletcher, James T.; Therien, Michael J.
CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA
SO Journal of the American Chemical Society (2000), 122(49), 12393-12394
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:125155
RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

<-----User Break----->

=> file registry
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
7.40	179.69

FILE 'REGISTRY' ENTERED AT 14:16:48 ON 09 MAR 2005
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Please note that search-term pricing does apply when
conducting SmartSELECT searches.

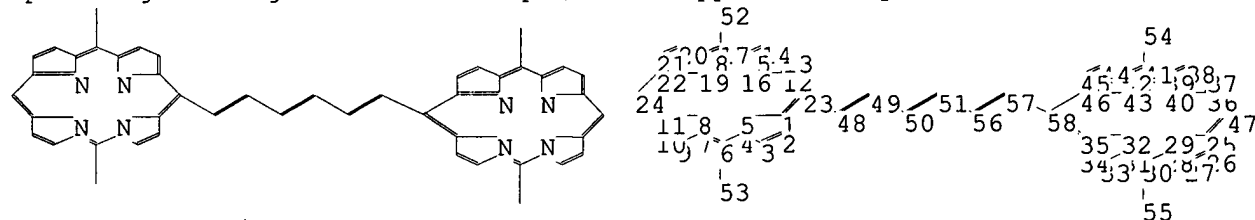
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10715493e.str



chain nodes :

48 49 50 51 52 53 54 55 56 57

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 58

chain bonds :

6-53 17-52 23-48 30-55 41-54 48-49 49-50 50-51 51-56 56-57 57-58

ring bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
22-24 25-26 25-29 25-47 26-27 27-28 28-29 28-30 30-31 31-32 31-33 32-35
33-34 34-35 35-58 36-37 36-40 36-47 37-38 38-39 39-40 39-41 41-42 42-43
42-44 43-46 44-45 45-46 46-58

exact/norm bonds :

7-8 8-11 12-16 15-16 31-32 32-35 36-40 39-40

exact bonds :

6-53 17-52 23-48 30-55 41-54 48-49 49-50 50-51 51-56 56-57 57-58

normalized bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23

13-14 14-15 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-26 25-29

25-47 26-27 27-28 28-29 28-30 30-31 31-33 33-34 34-35 35-58 36-37 36-47

37-38 38-39 39-41 41-42 42-43 42-44 43-46 44-45 45-46 46-58

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom

29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom

38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom

47:Atom 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS

55:CLASS 56:CLASS 57:CLASS 58:Atom

L8 STRUCTURE UPLOADED

=> que L8

L9 QUE L8

=> s l9 sss full

FULL SEARCH INITIATED 14:17:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 426 TO ITERATE

100.0% PROCESSED 426 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L10 0 SEA SSS FUL L8

=>